

Figure 1. Unit cell of faujasite-type (X and Y) zeolites including cation sites.

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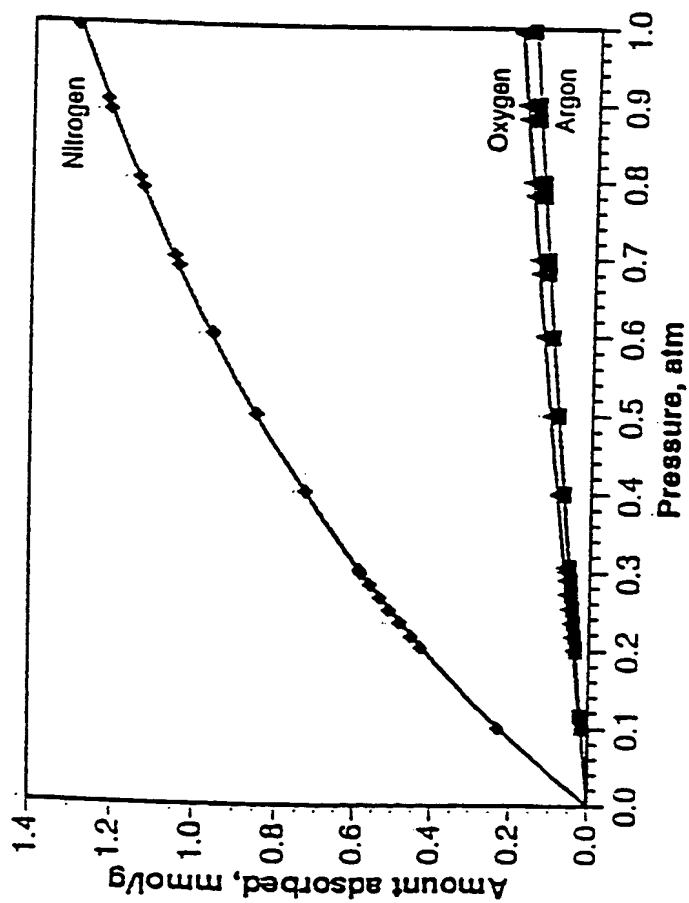


Figure 2. Adsorption isotherms for N_2 , O_2 and Ar measured at 25°C for $Li_{0.5}Na_{1.5}X-1.0$ dehydrated *in vacuo* at 350°C.

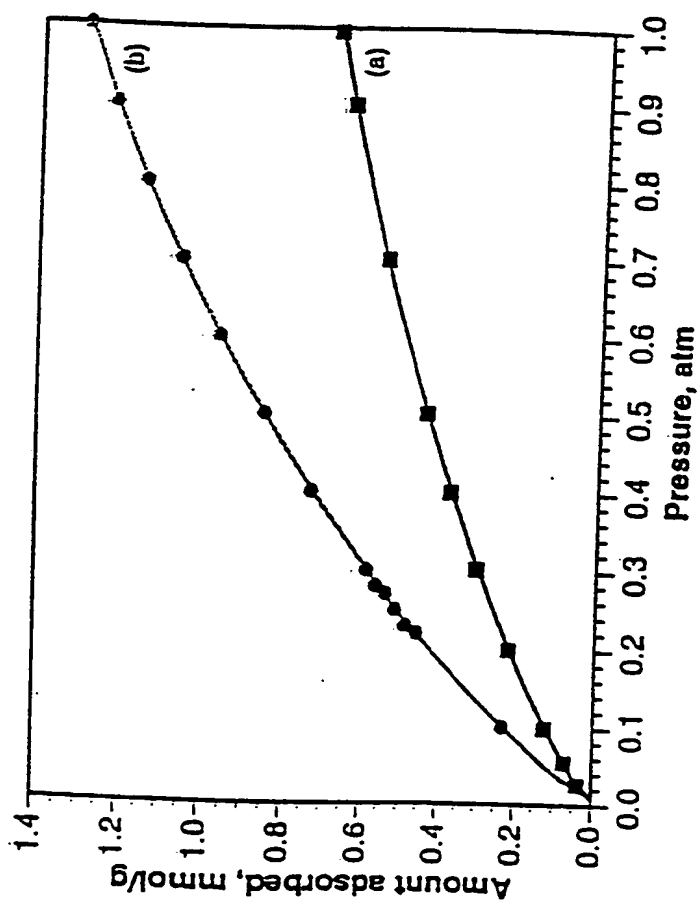


Figure 3. N_2 adsorption isotherms, measured at 25°C for (a) $Li_{77}Na_9X-1.25$ and (b) $Li_{94.5}Na_{1.5}X-1.0$. Both materials were dehydrated *in vacuo* at 350°C.

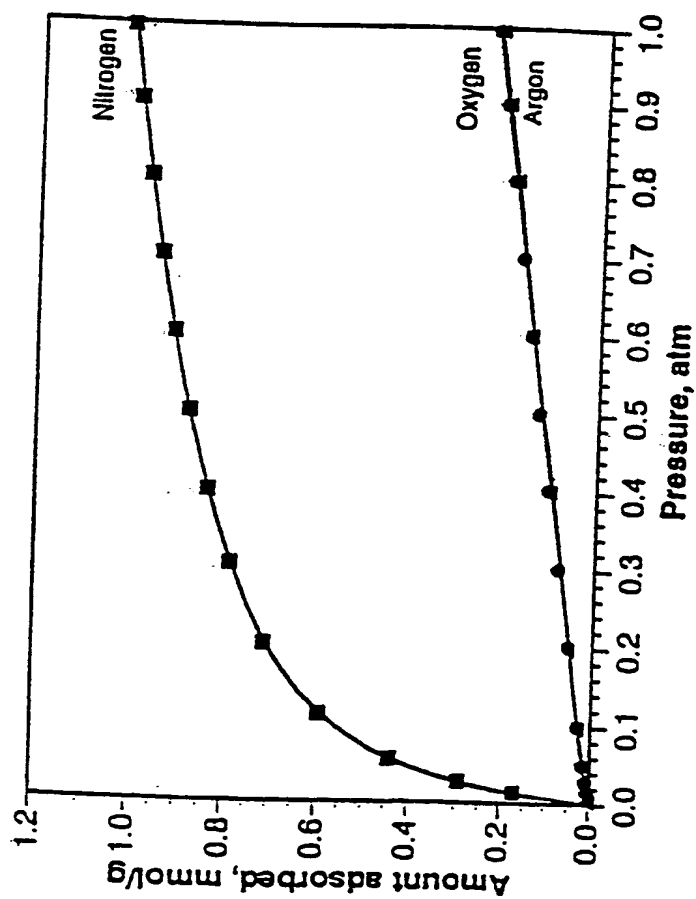


Figure 4. Adsorption isotherms measured at 25°C for N₂, O₂ and Ar on Ag_{95.7}Na_{0.3}-X-1.0 dehydrated *in vacuo* at 450°C.

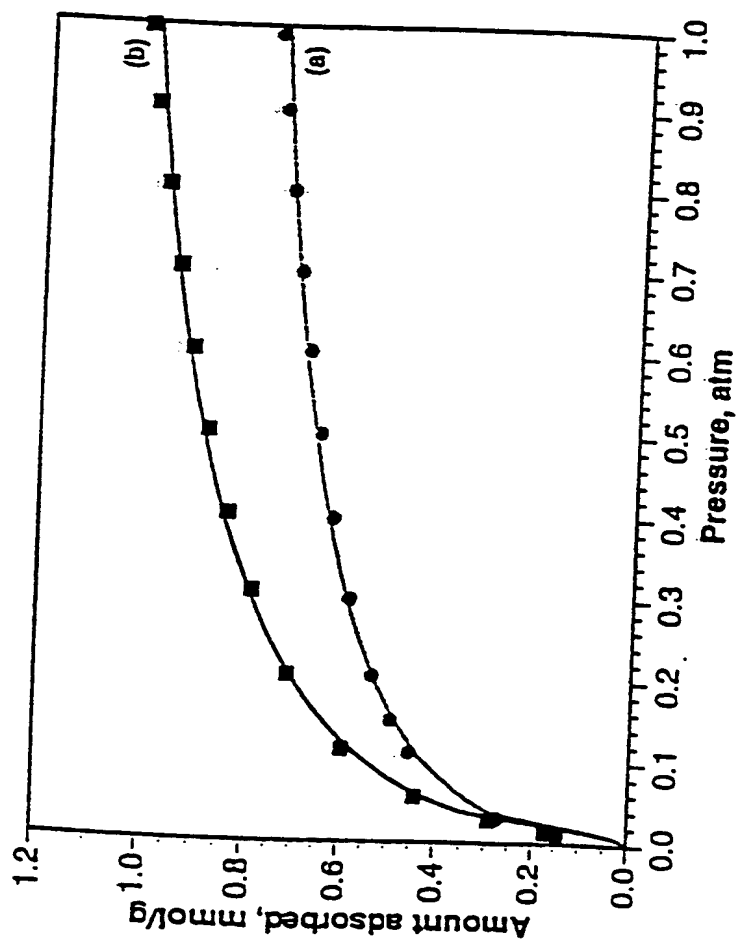


Figure 5. N_2 adsorption isotherms, measured at 25°C, for (a) $Ag_{85.7}Na_{0.3}-X-1.25$ and (b) $Li_{85.7}Na_{0.3}-X-1.0$. Both materials were dehydrated *in vacuo* at 450°C.

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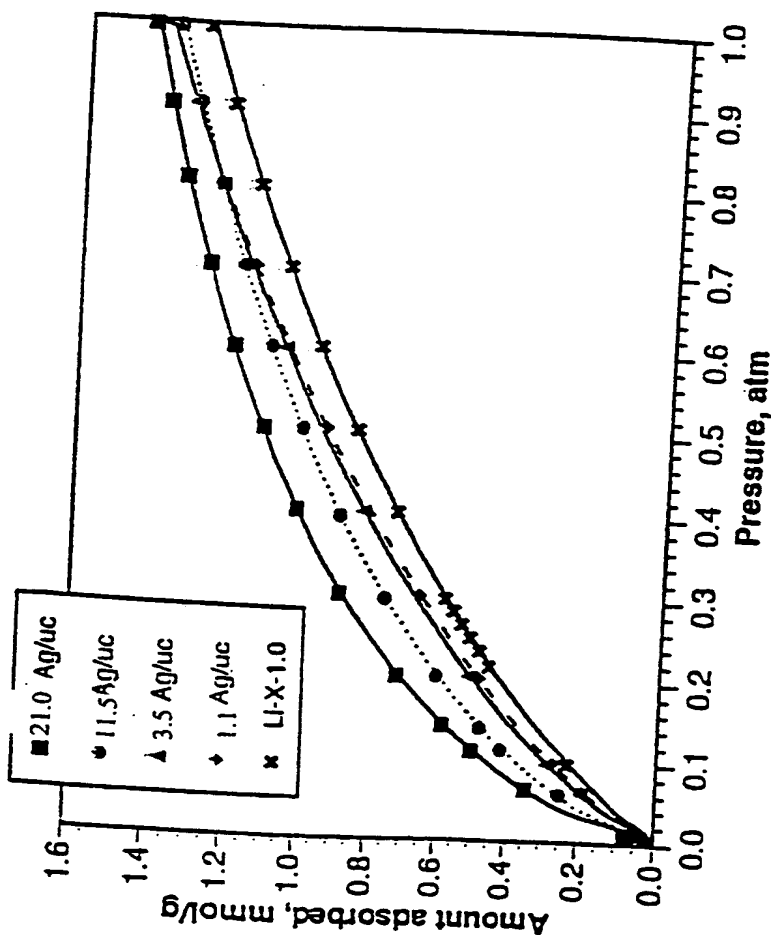


Figure 6. N_2 adsorption isotherm, measured at 25°C, for (Li_xAg_{1-x}) zeolites dehydrated *in vacuo* at 450°C. This shows the addition of increasing amounts of Ag results in a change in the general aspect of isotherm toward that of the fully Ag^+ -exchanged material.

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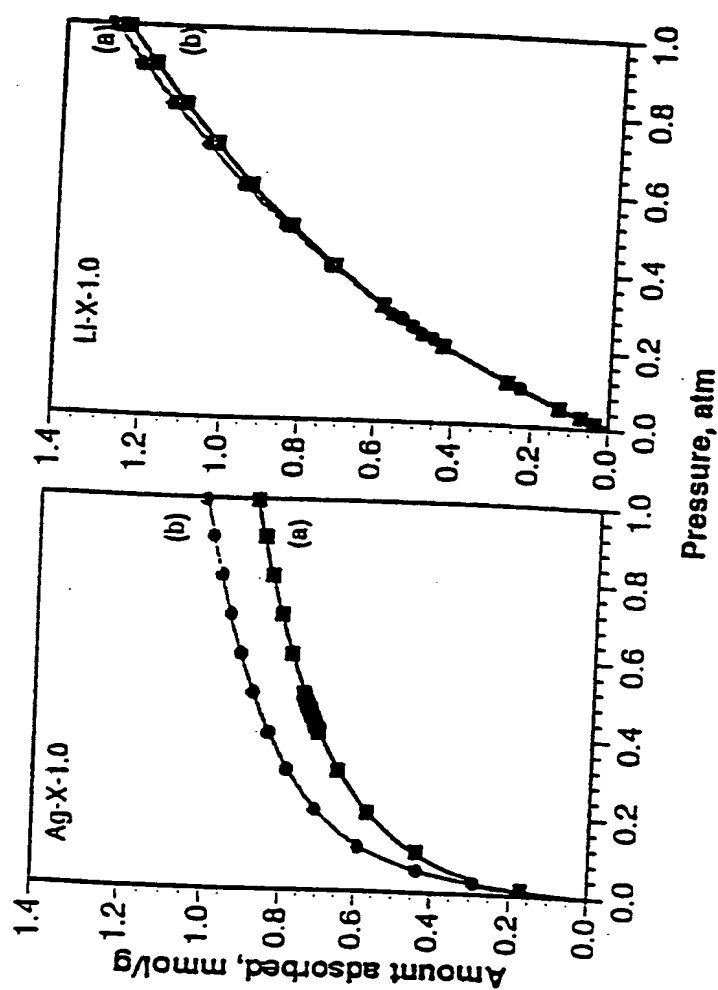


Figure 7. N_2 adsorption isotherm, measured at 25°C, for $Ag_{95.7}Na_{0.3}X-1.0$ (left, Ag-X-1.0) and $Li_{94.3}Na_{1.5}X-1.0$ (right, Li-X-1.0). The materials were dehydrated *in vacuo* at (a) 350°C and (b) 450°C.

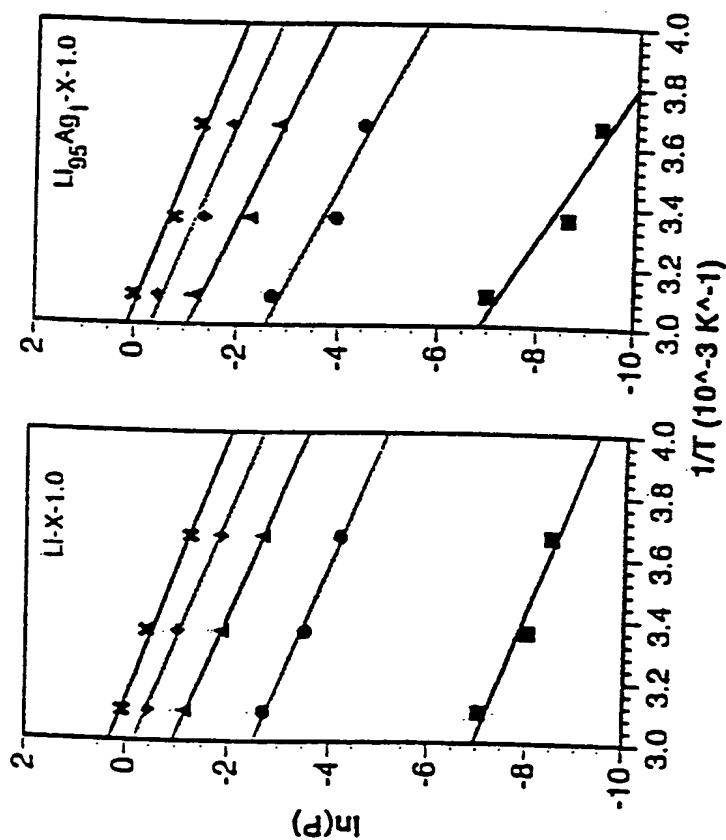


Figure 8. $\ln(P)$ vs $1/T$ at different coverages for $\text{Li}_{94.5}\text{Na}_{1.5}\text{X}-1.0$ (left, Li-X-1) and $\text{Li}_{94.2}\text{Na}_{0.7}\text{Ag}_{1.1}\text{X}-1.0$ (right, $\text{Li}_{95}\text{Ag}_1\text{X}-1$).

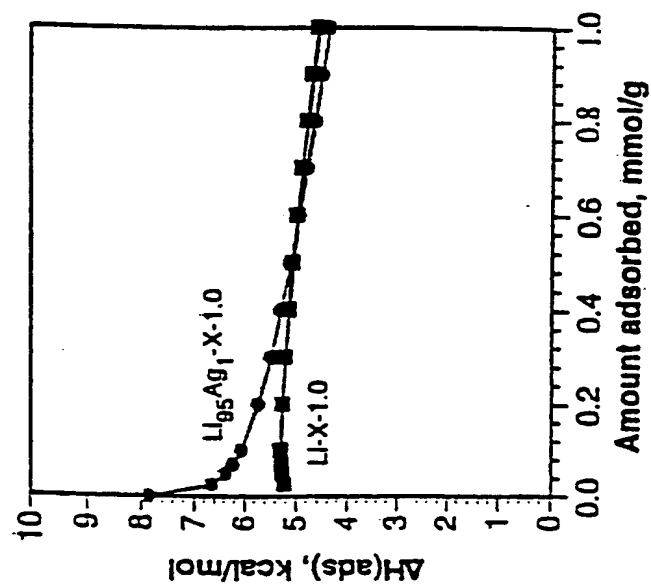


Figure 9. Isosteric heats of adsorption of N_2 for $\text{Li}_{94.5}\text{Na}_{1.5}\text{-X-1.0}$ (Li-X) and $\text{Li}_{94.2}\text{Na}_{0.7}\text{Ag}_{1.1}\text{-X-1.0}$ ($\text{Li}_{95}\text{Ag}_1\text{-X}$).

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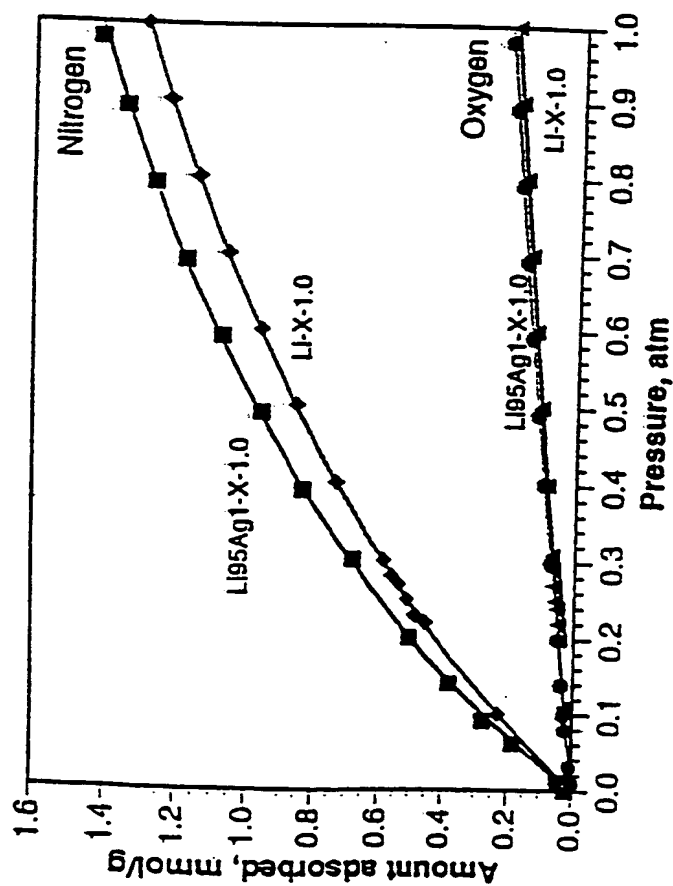


Figure 10. N₂ and O₂ isotherms for Li_{94.2}Na_{0.7}Ag_{1.1}-X-1.0 (Li₉₅Ag₁-X) dehydrated *in vacuo* at 450°C and for Li_{94.5}Na_{1.5}-X-1.0 (Li-X) dehydrated *in vacuo* at 350°C. All isotherms were measured at 25°C.